Duty cycle factor calculations


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hp    Advanceed Business Sciences Inc.
      Model: 1023018                    ACTV DET: PEAK
      FCC ID: OAM 1023018               MEAS DET: PEAK QP AVG
      Standard: FCC Part 15.231                MKR 25.000 msec
                                                 14.07 dBµV

LOG   REF 92.0 dBµV
10
dB/
 ATN
10 dB




WA SB
SC FS
  CORR




CENTER 303.835 MHz                              SPAN 0 Hz
     #IF BW 100 kHz        AVG BW 30 kHz     #SWP 50.0 msec
```
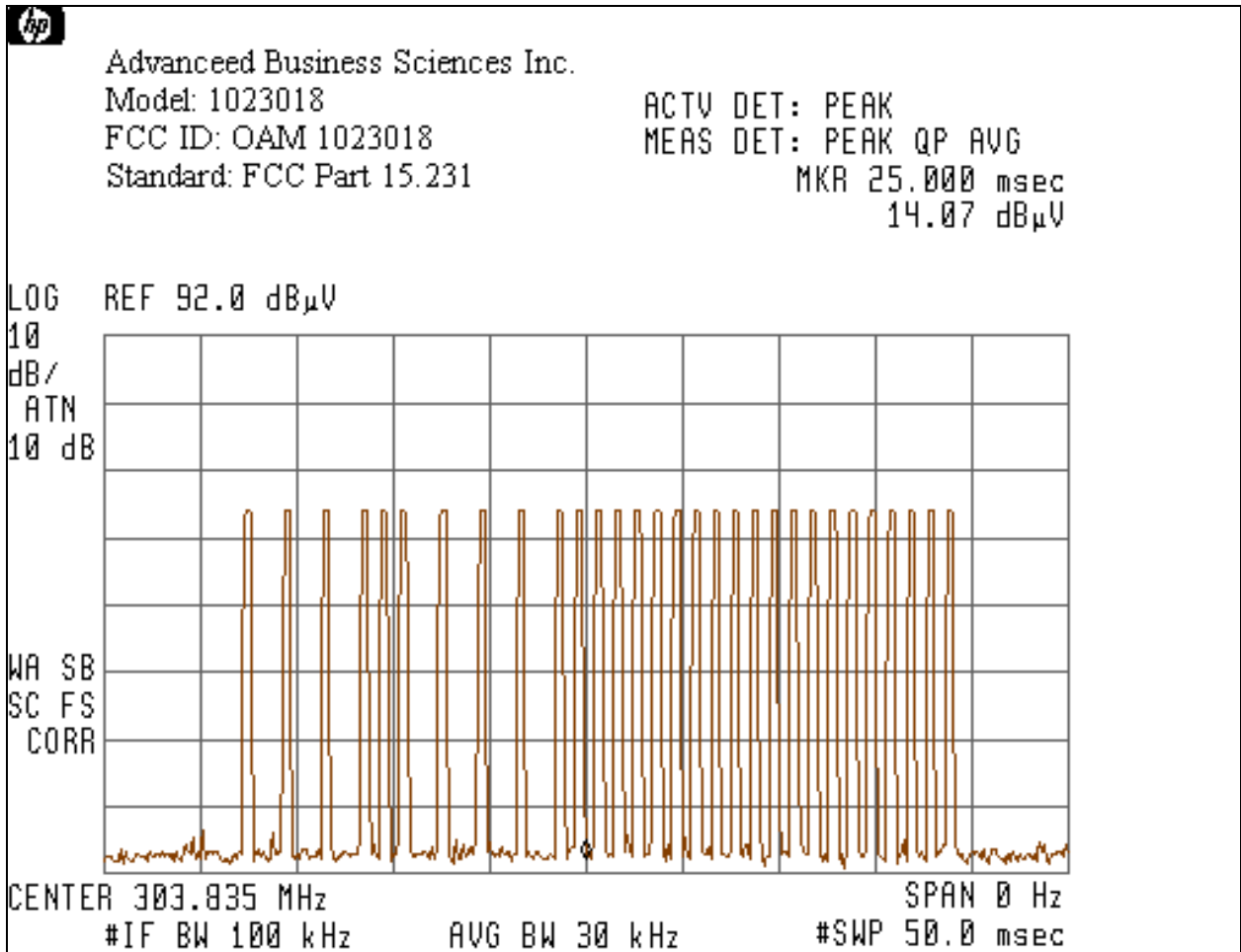
The pulse train is less than 100 ms including blank intervals. The duty cycle calculated by averaging the sum of the pulse widths over one complete pulse train.

The sum of the pulse widths is 0.32ms x 30 pulses in the train = 9.6 ms
The length of the period is 108 ms
The duty cycle is 9.6 ms/108 ms = 0.089
The Peak-Average correction factor derived from the duty cycle 20lg(0.089)=-21dB
The maximum Peak-Average correction factor is 20dB

Please see the attached graphs for the pulse train measurements.